FIG. 1

FS-HBP1

r3→ ;		60
•	M K L L L S L A F V L A L S Q V K	
	,	
61	AAGCCGATAAGCCAGTTTGGGCGGATGAAGCGGCAAACGGGGAACACCAAGACGCCTGGA	120
	AAGCCGATAAGCCAGTTTGGGCGGATGAAGCGGCAAACGGAAACGGAAACGGCAAACGGCAAACGGAAACGGCAAACGGCAAACGGCAAACGGAAACGGCAAACGGAAACGGCAAACGGAAACGGAAACGGCAAACGGCAAACGGAAACGGAAACGGAAACGGAAAACGGAAAACGGAAAACGGAAAACGGAAAACGGAAAACGGAAAACGGAAAACGGAAAACGGAAAACGGAAACGGAAAACGGAAAAAA	
	↑	
101	AGCATCTCCAAAAACTCGTTGAAGAGAATTACGACTTGATAAAAGCCACCTACAAGAACG	180
±	AGCATCTCCAAAAACTCGTTGAAGAAATTACGACTTGATZATATTATATT	
	T3a→←T ⁷ c	
		240
181	P V W G N D F T C V G T A A Q N L N E D	
	ACGAGAAGAACGTTGAAGCATGGTTTATGTTTATGAATAATGCTGATACCGTATACCAAC	300
241	ACGAGAACATCGTTTATGTTATGATATGATTATGATTATGATTATGATTATGATTATGATTATGATTATGATTATGATTATGATATGATATGATTATGATG	
201	ATACTTTTGAAAAGGCGACTCCTGATAAAATGTACGGTTACAATAAGGAAAACGCCATCA	360
301	T F E K A T P D K M Y G Y N K E N A I T	
361	CATATCAAACAGAGGATGGGCAAGTTCTCACAGACGTCCTTGCATTCTCTGACGACAATT	420
301	CATATCAAACAGAGGATGGGCAAGTTCTCACAGACGTCCTTCACAGACAG	
		480
421	GCTATGTCATCTACGCTCTTGGCCCAGATGGAAGTGGAGCAGGTTACGAACTCTGGGCTA	480
•	GCTATGTCATCTACGCTCTTGGCCCAGAIGGAAGIGGAAGIAGACAOOITTAGATCTACGCTCTTGGCCCAGAIGGAAGIAGAAGA	
	T3b→←T7d	
		540
481	CCGATTACACGGATGTTCCAGCCAGTTGTCTAGAGAAGTTCTTTTTTTT	
541	TGCCGGTACGGGACGTATACACAAGTGATTGCCTCCCAGAATAACTTGGGCATATCGTAA	600
241	P V R D V Y T S D C L P E *	
		660
60	1 TTTCAACTTCAAAGTGTGTTATTGTCAGCATATGTCTCGAGTGTTTGATGTAGTGCGTTC	000
	1 GATGATGCCATTCATCTAGGTTTCGGGTGTTCGGTACTTTATGGTCACTGCCGACGGCCA	720
66:		
e in	←T7	
72	gcacgagtactcgaa <u>lataaa</u> gtattctgaaatcggaaaaaaaaaaaaaaa 770	

FIG. 2

FS-HBP2

r3→ 1		60
	MKLLILSLALV	
61		120
	LALSQVKG <u>NQPDWADEAA</u> NG	
121	GTGCACACCAAGACGCCTGGAAGAGTCTGAAAAGCGTTTACTACATGG A H O D A W K S L K A D V E N V Y Y M V	180
181		240
	KATYKN DPVW G N DFTCV G V M	
	T3b→←T7a	
241	· · · · · · · · · · · · · · · · ·	300
	ANDVNEDEKSIQAEFLFMNN	
301	ATGCTGACACAAACATGCAATTCGCCACTGAAAAGGTGACTGCTGTTAAAATGTATGGTT	360
	ADTNMQFATEKVTAVKMYGY	
361	ACAATAGGGAAAACGCCTTCAGATACGAGACGGAGGATGGCCAAGTTTTCACAGACGTCA	420
30,1	NRENAFRYETEDGQVFTDVI	
	→	
421		480
	AYSDDNCDVIYVPGTDGNEE	
	←	
481	AAGGTTACGAACTATGGACTACGGATTACGACATTCCAGCCAATTGTTTAAATAAGT G Y E L W T T D Y D N I P A N C L N K F	540
	G I E L W I I D I D I I I I I I I I I I I I I I	
541	TTAATGAGTACGCTGTAGGTAGGGAGACAAGGGATGTATTCACAAGTGCTTGCC <u>TAGAGT</u>	600
	NEYAVGRETRDVFTSACLE	
601	→ AATAACTTCAGAATGTCGTTCTTTCAAAGCGAAAAACCAACAATGTGAACATCGGCTTGC	660
661	TGTGCTCGACGTAGCCAGCGATAATGTTGTTTTCCTGGGTTTCTGGGTTTGGATACTTTT	720
721	AGCCACTGCCGAAGAGCTGTAAAGGTAATGAAA <u>ATAAA</u> ATGTTCAAGAGTGTG <i>AAAAA</i> A	780
	← T7	

←T7

781 AAAAAAAAAAA 793

FIG. 3

MS-HBP1

1	T3→ 1 AAAGCACTCAACATGAAGGTTCTTTTGTTGGTTCTTGGAGCTGCTCTTTGCCAGAAT	
	M K V L L V L G A A L C Q N	'GCA 60 A
61	D A N P T W A N F A W I GGATCTACCAAGACGCCTGG	AA G 120 K
121	AGCCTTCAGCAAGACCAAAACAAGAGATACTATTTGGCACAAGCGACACAAACGACT S L Q Q D Q N K R Y Y L A Q A T Q T T	
183	GGCGTATGGGGTGAAGATTTACTTGTGTGAGTGTTACGGCTGAGAAGATTGGAAAGAG ${\sf G}$ ${\sf V}$ ${\sf W}$ ${\sf G}$ ${\sf E}$ ${\sf F}$ ${\sf T}$ ${\sf C}$ ${\sf V}$ ${\sf S}$ ${\sf V}$ ${\sf T}$ ${\sf A}$ ${\sf E}$ ${\sf K}$ ${\sf I}$ ${\sf G}$ ${\sf K}$ ${\sf I}$	AAA 240 K
241	AAACT <u>TAACGCTACGATCCTC</u> TATAAAAATAAGCACCTTACTGACCTGAAAGAGAGTCK L N A T I L Y K N K H L T D L K E S F	
301	GAAACAATCACTGTCTGGAAAGCATACGACTACACAACGGAGAATGGCATCAAGTACG E T I T V W K A Y D Y T T E N G I K Y E	AG 360
361	ACGCAAGGGACAAGGACGCAGACTTTCGAAGATGTCTTTGTATTCTCTGATTACAAGATQCAAGATQCAAGATQCTTTTGTATTCTCTGATTACAAGATQCAAGATGTCTTTTGTATTCTCTGATTACAAGATQCAAGATQTCTTTTGTATTCTCTGATTACAAGATQCAAGATQTCTTTTGTATTCTCTGATTACAAGATQCAAGATQTCTTTTTTTTTT	A <u>C</u> 420
421	TGCGATGTAATTTCGTTCCCAAAGAGAGAGGAAGCGACGAGGGCGACTATGAATTGTCCCCCCCC	<u>GG</u> 480
481	GTTAGTGAAGACAAGATTGACAAGATTCCCGATTGCTGCAAGTTTACGATGGCGTACTVSEDKIDKIPDCCKFTMAYF	FT 540
541	GC <u>CCAACAGCAGGAGAAG</u> ACGGTTCGTAATGTATACACTGACTCATCATGCAAACCAGGA QQQEKTVRNVYTDSSCKPA	CA 600
501	CCAGCTCAGAACTGATATTCTGGTAATGCTTGAACCGTAATGGTTCGACCTGCAGTCTA PAQN *	sG 660
661	AAACATTTACCACCATCACGGTGATTATCTTACCGTAGTTTCTTAGGTCTTGTTCTTTG ←T7	720
21	ATAAAATAGTTCCCTGCATTGACAAAAAAAAAA 753	

T3→

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1	A'	TGA.	AGA	TGC	AGG	TAG	TGC	TCT	TAC	TTA	.cci	TTC	נדד	۹۵۲	3CC	cc.	ىلىت.		~~,		CAAG		
1	M	ĸ	M	Q	v	v	L	L	L	T	F	v	, s				L	A	1	_	DAAG		60 20
61	G	GAG	TA	CAT	CTG	CGA	LAC	CAG	c » c	r r r	<i>y</i>	~~~	~~~								TTG		
21	E	T	T	S	A	ĸ	A	G	ong E	N	בככ	L	וטי	. GGC									120
		_	Ī				-		个	14	F	سف	· •	, ,	.	H	E	E	L	· I	. G		40
121	A2	ATA	TC	AAG	ATG	CCTC	3GAZ	- - -	GCA:	TCG	ATC.	AGG	GCG	TGT	'CG	376	200	בידי		~~~	TTG		• • •
41	K	Y	Q	D	À	W	K	s	I	D	Q	G	ν	S	1		T	Y	V			C.F.	180 60
															←								
181	AA	GAC	:AAC	CATA	TGA	<u>GAA</u>	TGA	CAC	AGG	CATC	TAT	GG:	GAT	ccc	AG:	TT.	AAG	TG	CC.	rcc	AGG	ra.	240
61	К	T	T	Y	E	N	D	T	G	S	W	G	Ş	Q	F	1		С		Q			80
241	CA	AGA	AAT	AGA	AAG	AAA	.GGA	AGA	AGE	מידים	TEC	ים בי	י מידים	معد تا ت		. 			~~		GAAA	_	
81	Q	Ε	I	E	R	ĸ	E	E	D	Y	T	V.	ىڭ 1737/	יגמי S				AC T	CY!". F			/T	300
	_							_		-	•	•	•	د	V	1	7	1	•	R	N		100
301	GC	GTC	TTC	TCC	AAT	CAA	GTA	TTA	.CAA	CGT	GAC	AGA	AA	CAG:	rga	AGO	CC	GT:	ניבו	TC	AATA	.	360
101	A	S	s	P	I	K	Y			v	T	Ξ	T	v				V	F		Y	•	120
361	GGZ	ATA	CAA	AAA	CAT.	AAG	GAA'	TGC.	AAT	TGA	ATA	CCA	AGI	GGG	scg.	GTG	GA	נידיב	'A A	רב כ	CAAC	_	420
121	G	Y	K	Ŋ	I	R	N	A	I	E	Y		v	G	G				N	I	T	-	140
401												+	←										
421	GAC	CACC	SCT(CAT"	r <u>rr</u>	CAC:	rga:	rgg	<u>AGA</u>	ATT.	ATG	CGA	TGT						AΑ	TGC	'AGA'	-	480
141	D	T	L	I	F	T	Đ	G	Ξ	L	С	D	V	F	J.	V	I	>	N	À	D		160
481	CAP	GG1	TG:	rga	CTC	TGG								ACA	.cg:	CAC	CAG	AC	TA	CTG	CAC	3	540
161	Q	G	C	E	L	W	ν	K	K	S	Н	Y	K	Н	ν	P	Ι)	Y	C	T		180
541	TTC	GTG	TTC	CAAT	rgti	TTC	TGI	rgce	AAA	GAC	AGO	SAA	LAC!	CTA	CGA	TAT	TAT	TT.	AA:	rga	AGA?	<u>.</u>	600
181	F	v				F			K		R	K	T	Y.	D	I	F		N	Ε	E	•	200
501	TGT	GTT	TAT	CAAC	GGC	GAA	CCC	TGG	CTI	'TAA	AGG	CA	AAJ	lat:	CTA	TA.	.AA	TAC	cgc	بتيت	rcts	:	660
201	С	V	Y						L	•													220
61	TAG	Taa	GTA	.CTA	ATA	GCA	AGT.	agt	TGA	ΑΤ <u>λ</u>	ATA	<u>ኢኢ</u>	.AGA	LTT(3TA	AGI	rgc.	AA.		iaa.	ትልቆ	719	←T 7

PCT/GB98/03530

	Ra-Res FIG. 5	
1	CAACTGATCACTAAAATGTTCCTTGCGGGTTTCTTCATTTTCGGCGCTGCCGTCCTCTCA	60
	MFLAGFFIFGAAVLS	
61	GTTTTGGCTGAGGAGACACCTAATGATAGATGTACTACACACAC	120
121	TTTCTCAAGAAAGGCAAGAGATACGATATGAAACAGGAGAACCTTCCAAACACCTAACTCA F L K <u>K G K R</u> Y D M K Q R T F Q T P N S	180
181	GACGACACTAAATGCCTGTCCAGTACTATCGACGGAAAGAATGAAAATAACCATACAGTA DDT KCLSSTIDGKNEN $\underline{\textit{N}}$ HTV	240
241	CAAGCAACGATAAGATATCGAAATGGTTATGAAGGAAAATGGGACACCATCCGCCAGGAG Q A T I R Y R N G Y E G K W D T I R Q E	300
301	TACGAGTTCCCCAACTACACTGCAGGAGACTACAACTCCATGAAGACAACAGACAAATCC Y E F P <u>N</u> Y T A G D Y N S M K T T D K S	360
361	CCGCCTCCGCCGGCATCATACCTGTTTGGATATACTGGAAGCTCTTGTGCCGTGGTGTAC P P P P A S Y L F G Y T G S S C A V V Y	420
421	GTGAATTCCATTGGACCTGTTCGTAGCAATTCTGAAAACCCACCAGAAAGACTCACAGCA V N S I G P V R S N S E N P P E R L T A	480
481	AGTCAGGAAAGTGCACAACGCGATTGCGTCCTTTGGGTCGATCACGATGAAAAAGCTACC S Q E S A Q R D C V L W V D H D E K A T	540
541	CAAGAACAATGCTGTGAAGATTTCTTCAAGACCCACTGCAAAGAGACTGTCCATGTCATA Q E Q C C E D F F K T H C K E T V H V I	600
601	TACGACGTGAATAGATGCAAGGAGAATGGCAGTGAATAACACGATGCCGGGAATGGCATG Y D V N R C K E <u>N</u> G S E *	660
661	GCGACTTCATTTATGAAGGAAGACTTCCACAGATGTGAAACTTGCCTTCATTTTGCTTGT	720
721	TACTTTAGACCAACATATTCTTCCTTTTCCGACTTCAATGATATGATCTAGGTTGTAAAA	780
781	AGAGCGTTTT <u>AATAAA</u> GAAAGTATTAGCATCGATGATGGAAATAT AAAAAA 832	

Av-HBP

1	GCGACCGCGCCAGCCGTACAGAACAAATAGCCTTCGTTGCAAACGTGCAGCGTAGTCGG	00
61	ATGCCTAGTTAAACACCACACACGTAAAAAGTAGACGAAACTGGCTTCGCTTCCAGCA	120
121	CCAAGCAGGTCATCGTCTGGTCCACTGACGATGAACTCTGCCTTGTGGGTTTTACTAGGA M N S A L W V L L G	180
181	TCATCCTTATGGCTGCATACGGTAGCGTTCATGATTCCCACATGGGCAGATGAAGGCAGG S S L W L H T V A F M I P T W A D E G R	240
241	TTTGGCAAGTACCAGAACGCCTGGAAGGCCCTGAATCAGCGGATTAACACAACACATGTC F G K Y Q N A W K A L N Q R I \underline{N} T T H V	300
301	CTTGTGAGGTCAACGTATATCGACAATCCATATTTATGGGGCAAGAACTTCTCATGCGTA L V R S T Y I D N P Y L W G K \underline{N} F S C V	360
361	CGCGCTCGAACTGTCGAAGTCTTTCCCAGCAGCAAGACTGTGGAACTGGAGTTTAGTTTCR ART VEVFPSSKTVELEFSF	420
421	AGAAACAGGACTGGTATATTGTGCATGAGAAATCAAACGGTTCGAGCTGGAAAGGATTACR N R T G I L C M R N Q T V R A G K D Y	480
481	TTTTATCATCAGCCTAACGCCTTCGAATTCATGCTGAGAGGTAACAGGTCGTTTTCTAAC FYHQPNAFEFMLRG \underline{N} RSFSN	540
541	GCTGTCATGTTTACCGACGGAATGACATGTAATCTGCTCAGCTTTCCATACCAGCGCAAC A V M F T D G M T C N L L S F P Y Q R N	600
601	AAACCACAATGCGAACTATGGGTGAAGGACACGCGCGTCGACAACATTCCCCCTTGTTGCKPQCELWVKDTRVDNIPPCC	660
661	TCGTTCATGTTCGACTATTTGTGCCCACAGCCTCGTCCATTCATCATTTACGACAAAGCA	720

721	ATGTGCACGGTGAGGCCACCCCGCTAGAAAGGAAAAGGGATGAAAAGGCTACTCGAAGAAG M C T V R P P R *	780
781	CAACAACCAATCAGTGCCCACAAGAGAACCGTTCCAGTCCTGCGAAAGTTGCGCCTCCCA	840
841	AAACACATACATTTCACTGCAAAGATGACCGATGCAGTCGCAAATTCGTGTCCTAGAACT	900
901	CAAGTGCTGTTTTGGAAACTCGGAAAGGAGACAGTAGAAGCTAACTGCTGTGATACCTAG	960
961	GCCAGGCATTTCCGTCGGGCACTGTTTTTTATGAATAGGGTAGGGTGAAAGTATTTTGGC	1020
1021	TTTGCTGTGGCCCAATAAATAGCGTATATTAGCGGACTAGCATCGAAGTTCCAGATGCTA	1080
1081	TAAAGCAGCTAAAACTCACTTCTGCCTGGAACTTCGATAGGTATTGAATAGATCATGCGC	1140
1141	GCACAGAAAAGAAAAGTATCAATCAAAACATAAAAAGCATTCTTCGCATGTGCGCAAAGC	1200
1201	ATTCCCTAAGTCCACGCTAAAAATAGGTGTCATTTCATATAGCATCGAGTTCTATACGTT	1260
1261	CTTAAGATGCTACCGGTCATTCATTCCTTTCTCGTCTATGCCTCATGGATCTGAACCAAG	1320
1321	TTCTTCTATTGCCTCCTTGTTTTCCGGTAGCTACAGAGTTCAGCAGCACCATTGCTAGTG	1380
1381	CATATTTTATCTTCGTGCTGTTTTGTCGCAGTATATTTTTCTGCCTATTCACGATATTT	1440
	CCACAATGTAATAAAACATTTGCCTGCCTAAAAAAAAAA	

FIG. 6(contd.)

Ih/Bm-HBP1

1	CTCC	CAG	TCI	rgCI	TCG	GAC(GATO M	SAAC K	GGCT A	CTC L	CTG L	SATO	CGCT A	rg t (V	GGGC G	Y Y	CCTC	GC:	rgcc A	CGT V	60
61	CAC!	AGC(A	GGC <i>l</i> A	ACC(P	CCA/ Q	AGC' A	TTC(S	GCC'	rtc(S	CTCT S	P P	GAG(R	GAA(N	CGA. E	ACCI P	ACT(L	CAA(K	3AA' <u>N</u>	rac: T	TAC T	120
121	GTG	GCA H	CAG(S	CAA(K	GGAZ E	ACT L	GAA. K	AAA' N	TTA' Y	rcai Q	AGA' D	TGC(A	GTG W	GAA K	GTC: S	CAT I	CAA' N	TCA Q	AAA <u>N</u>	CGT V	180
181	CAG S	CAC T	TAC T	CTA Y	CTA ⁽	CTT F	CCT L	CAG R	ATC. S	AAC T	CTA Y	CAA N	.CAA <u>N</u>	.CGA D	.CAG S	TGT V	CTG W	GGG G	TAA K	<u>N</u>	240
241	TTT F	CAC T	CTG C	TCT L	TAG S	CGI V	'CAC T	GGT V	GAC T	ATC S	GAA K	ACA H	TGA E	OTA S	CAA: T	GTT F	'CAC T	CG1 V	'CGA E	ATA Y	300
301	ТАР <u>И</u>	CAC T	CAC T	GTA Y	CAA K	444. <u>N</u>	ATC <i>P</i> Q	GAG S	GCCA Q	ACA Q	OTA W	GGI V	rcac s	GCA!	rgac T	GG <i>I</i> E	AAA <u>N</u>	V.CGT	CAC T	GGC A	360
361	CG1 V	rgCi Q	AGG <i>I</i> E	AGG <i>I</i> E	AGG0 G	SCTA Y	ACG <i>I</i> D	ACG? V	rta <i>i</i> K	LAAA N	rata I	CA? I	rTC2 Q	AGT(W	GGA(T	CAAC T	CAG <i>I</i> E	AGAI <u>N</u>	LATA N	ACAC T	420
421	AA K	AGT' F	TCAI <u>N</u>	ATG! D	ATA T	TG' V	TTG' V	r rr ' F	ATT T	CGGI D	ACG(G	GCC) Q	AGA T	CTT C	GTG. D	ATC' L	TGT' L	TGT. Y	ACA'	TCCC P	480
481	GT. Y	ACA K	AAG E	AAA N	ACG(G	GTT Y	ACG. E	AGC L	TGT W	GGG V	TGC R	GTT S	CGG	ATT Y	ACC L	TGC Q	AGA N	ACA T	CTC P	CAAC T	540
541	GT C	GCT C	GCC Q	AGT F	TCA I	TCT F	TTG	ACC L	TCG V	TCG A	CAT L	TGG G	GAC	GTA	CCA	CGT Y	ACA <u>N</u>	ATA I	TCT S	CCAC	600
601	TC P	CTG	ACT	GCG V	TGA T	CCA K	AAA T ;	CCT S	CTC R	GTT *	AGA	.cce	STG#)AA,	SCC	CGG	CTI	OTA'	CTA	CTCG	660
661	. AC	TGC	TCA	.GGT	TGG												1AA/	∖ AΤ(TTAE	<u>&</u> ADD1	720
												נבבו	AAA	AAA	7 (50					

Ih/Bm-HBP2

1	AGTGACTCCT	GCTCTGCTTCGAC	GATGAA	GGCTCT	CTGATC	GCTGTCG1	CTACCT	GACT 60
_	110101101		M K	A L	L I	V V	Y L	Т
61	GCCGTCACAG	GCGGCAGACCAAGC	TCCGCC	TTCCTC	racgagg	AATGAACO	CACTCGAC	GAAA 120
0 -	A V T A	A D Q A	P P	S S	T R	N E P	L E	K
121	ACTACCTGGC.	ACAACCAGACACT	GGGACG	TATCA	AGATGCG	TGGAAGT	CATCAA	rcaa 180
14.	T T W H	N Q T L	G R	Y Q	D A	W K S	I N	Q ,
181	AGCGTCGGCA	ACTACCTACTACTT	CCTCAG	ATCAAC	CTACAAC	AACGACA	GCGTGTG	GGGT 240
101	S V G T	T Y Y F	L R	S T	У И	<u>N</u> D S	v w	G
241	አአአአአውጥጥጥር እ	ACCTGTCTTAGCGT	CACGGI	GACATO	GAAATAT	GAATCAA	CGTTCAC	CGTC 300
241	K N F T	C L S V	T V	T S	K Y	E S T	F T	V
301	C λ T λ T λ Δ C λ	ACCACGTACAAAAA	TCAGAG	CCAACA	ATGGGTC	AGCATGT	CGGAAAA	CGTC 360
201	E Y <u>N</u> T	т т у к <u>и</u>	Q S	Q Q	w v	S M S	E <u>N</u>	V
361	ACGGCCGTGC	CAGGAGGGCGGCTA Q E G G Y	CAGTGI	TAAAAA N	CATCATI	CAGTGGA	CAACGGA T E	GAAT 420 N
	TAVQ	J F G G I	5 (10 20				_
421	AACACAAAGT	rtcaatgatactgi	TGTTT	rtacgga	CGGCCAC	SACTTGTG	ATGTGTT	ATAC 480
	N T K F	F N D T V	V F	T D	G Q	T C D	V L	Y
481	ATCCCGTACA	AAAGAAGACGGTTA	ACGAGC	rgtgggt	GCGTTC	GAATACC	TGCAGAA	CACT 540
	I P Y K	K E D G Y	E L	W V	R S	EYL	Q N	T
541	CCAACGTGCT	TGCCAGTTCATCT	TGACC	rcgrcgc	ATTGGG	ACGTACCA	CGTACAA	TATC 600
341	PTC	C Q F I F	D L	V A	L G	RTT	Y <u>N</u>	I
601	TCCACTCCT	AACTGCGTGGCCA(CACCG	CTGGTTA	GACAAT	GCAAGCCG	CGGCTTA	ATTT 660
002	S T P 1	N C V A T	T A	G *				
661	ACTCGACCG	CTCAGGTTGGAAG'	TGCCGG	GAGCCTC	GACGGG	CACTACTA	CTTAAAA	ATGAT 720

lh/Bm-HBP-3

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781 (CONTD.)

TCNGCTGACGGGTGTGGCGGGAACTTTTTTAAATGAAATTGGTCATACTTGTTGAAAGAC 961

901

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AAAAATAAAACAATATGTTACTCCTC 1046 1021

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CATAACTTCCTGCGGCTATCCAACTTTTCTTATGTACAACAAGACCATCTGTAATCGAAC

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GGATTCTGCTGCGGTGTGAACGTCCCCTGCGAGCAAGTAGAACGTCCGTGAAGACAGCAG

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GAAGATAGTTGACTGTTTTGTTGGCGGAATGTGACTACTAGTCTGAATCATTAAAAAGAT

096

1020

PCT/GB98/03530

lh/Bm-HBP4

1	GGA	220	CAG	GAT	GGC	GCT	CAG.	\mathtt{ATT}	TGC.	ACT	TCT	GCT	GGC	G.L.C.	CAT	CGT	CAC	تاتان	A.I.G.	TGG	60
_	0011			M	A	L	R	F	A	L	L	L	A	С	I	V	Т	Α	С	G	
61	CTG	GAG	ጋልል	ACG	GAT	TCA	AGA	GAA	AGG'	TCC	CGA	GAA	CAA	CCC.	TCT	CAT	GAA	CAC	CCA.	ACG	120
61	W	R	Т	R	I	Q	E	K	G	P	E	N	IJ	P	L	M	N	Т	Q	P.	
1 21	mmm	ccc	מממ	אבריים ב	'GC'A	AGA	CGC	ATG	GAA	GAG	TCT	GGA	AAA	GGC.	AGC	AAA	TCA	GAC	GTA	TGT	180
121	L	G	K	М	Q	Ð	A	W	K	S	L	Ε	K	A	А	<u>N</u>	Q	Т	Y	V	
181	്രന്ന <u>്</u>	тест	டுரு	ירכפ	ירייר:	'AAG	AAA	TCA	.CGA	ACC	AGA	TAT.	ATC	CTG	CGT	'CTA	.CGT	GAG	AGC	TAG	240
101	L	V	F	R	S	R	N	H	E	P	D	I	S	С	V	Y	V	R	Α	S	
241		mma	א רי א	ממית	יייכר	י א א רי	ממיי	. A A C	TGC	AGA	ATT.	TAC	:CAG	AAC	ATA	ATT	CAA	TAT.	GAC	GGC	300
241	N	L	D	N	Α	Т	K	Т	A	D	Y	Т	R	T	Y	Y	<u>N</u>	М	T	A	
301	73 73 7	\ N C N	. אמ	CCT	יכייר	'GGT	מבבי	TTA	TAC	TGC	AAG	AGC	TCT	'GAA	.GC#	AGI	GGA	CTA	TGA	GTC	360
301	K	Q	N	V	S	V	N	Y	Т	A	R	A	L	K	Q	V	D	Y	E	S	
361-	c.c.i	1 7 7 7 7	mca	rcca	ראככ	raa:	בבבי	.cc1	rgac	AGO	TGG	GGI	rccc	CAG	TAF	ACG <i>P</i>	ATAC	AGI	TCC	TCC	420
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421	G	S	F	E	Y	v	E	Y	G	<u>N</u>	Y	S	С	<u>N</u>	S	S	S	Т	P	F	
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961	AC'	TGG	TCA	TAC.	ATG	TGA	AAG.	AAA	AA <u>A</u>	ATA	<u> </u>	CAA	TAA	GTG	CAT	AAA	AAA	AAA	AAA	AAAA	
001	AA	2 2 Z	1	025																	

FIG. 10(contd.)

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1 CGAAGAGCAGGTACGATTCGAATCTTTGCAATGGACATTCGCAGCGCTGTTTTGTTCGCG

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	11 TATAATAATGTTACCTGCTACCCCAAIAICACAAIAICACAAIAICACAAIAICACAAIAICACAAIAICACAAIAICACAAIAICACAAIAICACAAIAICACAAIAICACAAIAICACAAIAICACAAIAICACAAIAICACAAIAICACAAIAICAAAIAICAAAIAICAAAIAICAAAAIAAAAAA	481
480	1 TTCAACGGCGACACTCCAAGCTCCAGCCCCTCCCGGAAGCAGCGTGTACATTCAG F N G D T P S S T P A P P G S S V Y I Q	421
420	1 ATCCCAGTGAGCTCTGAACTGACTACTCACTAGAAATGTGATTCGAGCAAGC $f I$ $f P$ $f Y$ $f S$ $f L$ $f E$ $f N$ $f V$ $f I$ $f R$ $f A$ $f S$ $f L$ $f E$ $f N$ $f V$ $f I$ $f R$ $f A$ $f S$	361
360	, actgccaattacacaataacgtattacgatactacaacaaatacatccaacaatttaca the subset of the subse	301
300	CACGAGAACAAGGCTAAATGTGTCTTCGTAACGGCAAATATTACTGACTCCCGGAACAAA $_{ m H}$ $_{ m E}$ $_{ m N}$ $_{ m K}$ $_{ m R}$ $_{ m K}$ $_{ m R}$ $_{ m M}$ $_{ m I}$ $_{ m I}$ $_{ m D}$ $_{ m S}$ $_{ m R}$ $_{ m M}$ $_{ m K}$	241
240	actatagaagagacgtccaatgatacgtatgtcctgatgttccgctcaaacattacgac $_{ m T}$ ieets $_{ m N}$ d t y u m f r s k h y d	181
180	CCTGATAACAGCCCTCTGTTGAACAACCAACATCTTGGTCTTTTCCAGGACGCATGGAAG P D N S P L L N N Q H L G L F Q D A W K	121
120	TGCATCGTCTCGGCGTGTTTTGGCGCTGGACACACGGGGGTAACTAAAAAG CIVSACCGCGTGTTTTGGCGCTGGACACGGGGGTAACTAAAAAG	61
	CGAAGAGCAGGTACGAATCTTTGCAAIGGACAIIGGACAIGGACAIGGACAIGGACAIGGACAIIGACAIIGACAAIIGAAAAIIGAAAAAAAA	н

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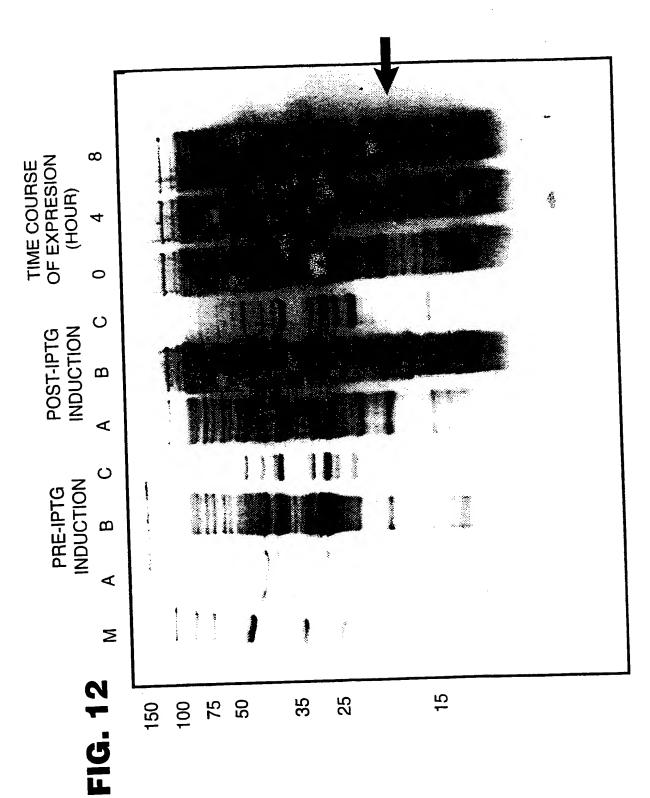
GGATGTGACTTCTGGCTAAGGAAAACTGAGTTGCCAAGCCTACTGAAAGCAGCAGCAGAAAAT

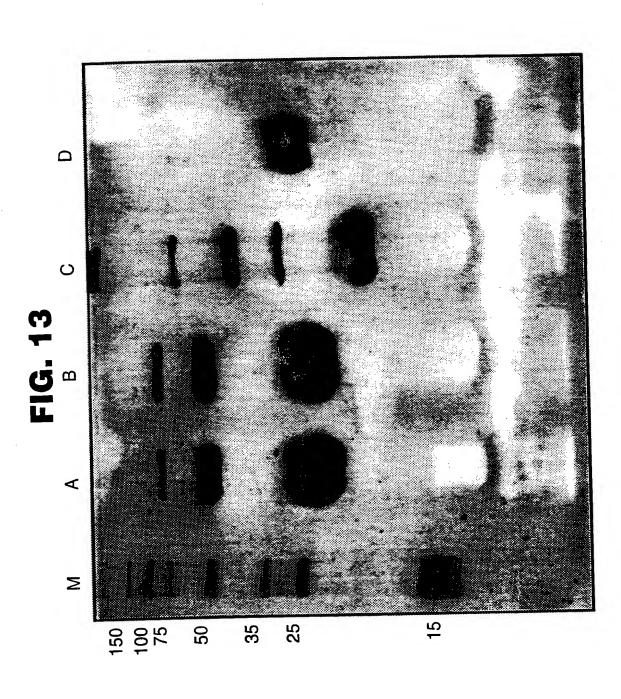
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AGTCTGCCTTGTACGCACGAAATAACAAAATATCTGTTGAAGCCNNCAACNNNNNAANA	1081
ACCGTATGCCTGGTATGCAAGAAGGTGAGGTTGGACAGGATACTTCCGAATTATTTTC	1021
AATAGCTCCCTGCCAGCTAATATGGCAGAAAGTTAAATGAGCTATTTCACTTCATGTTCG \underline{N} S S L P A N M A E S *	961
TTTGCCTTCCTGGCCGCTTGTGGAATCCAGCATTCACAATATACGACCCAGAAACATGT FAFLAPC GNPAFT IYDPET C	901
GAGAAGGCTGAAGATGTCTTTAAAACACCTCCCTCCGACTGCCGC E K A E D V F K N T A F K H L P S D C R	841
AAAACAAGATTTCGACATAATACTAAGAAATGTAAGATGTACGTAC	781
$ exttt{GATGACAACGATAACACTGTTGGGAAAGAAGAATAAATAA$	721

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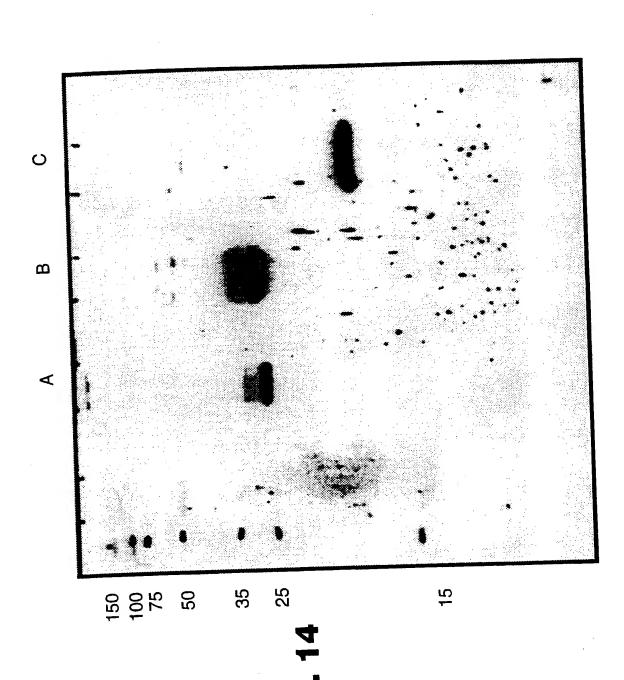
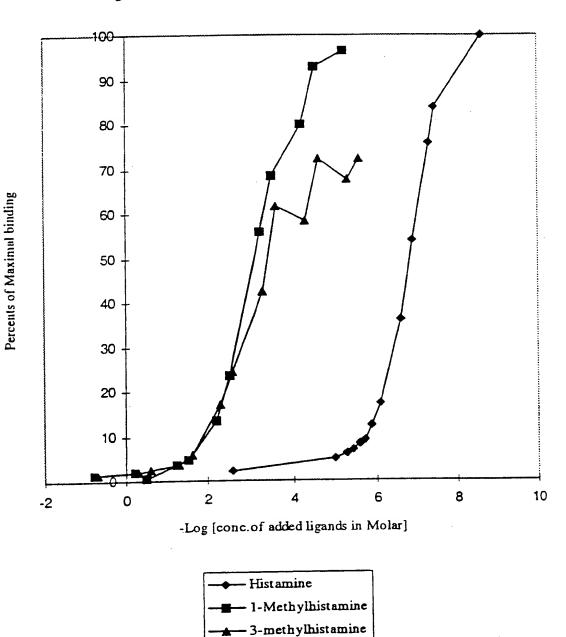


FIG. 15

Binding Activity of derretine to histamine and its methylsubstitutions



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500 y = 0.4508 Ln(x) + 0.6065y = 0.7392 Ln(x) + 0.1072y = 0.4386 Ln(x) + 0.696400 [Free histamine] nM 300 200 100 7 Mn [avuoa]

FIG. 16

Histamine-binding saturation curve

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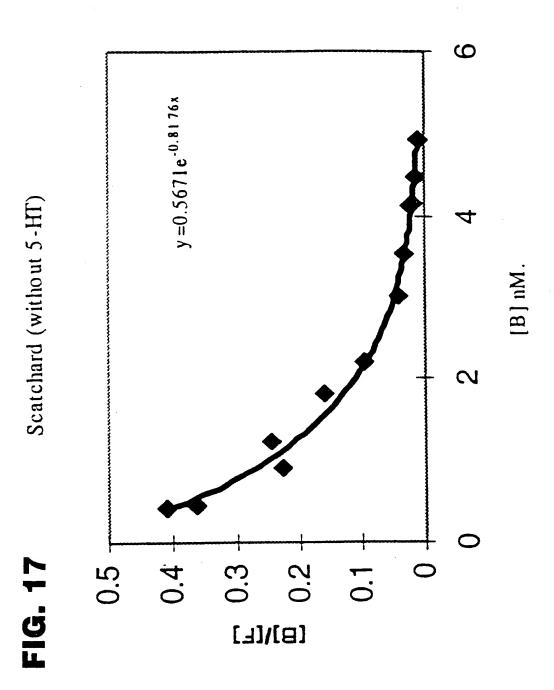
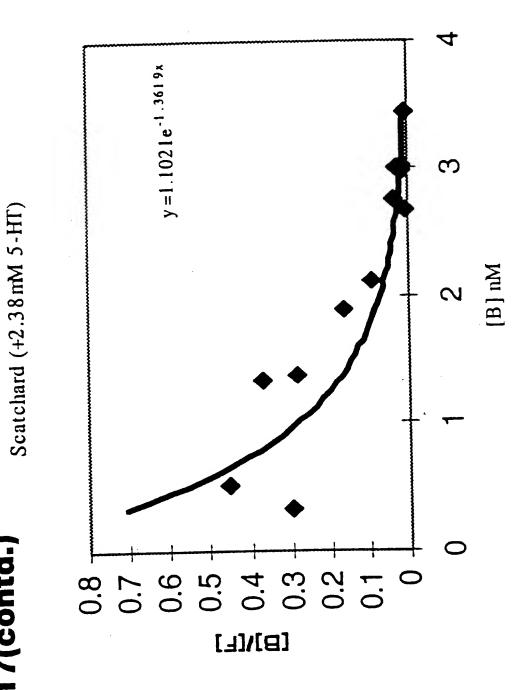
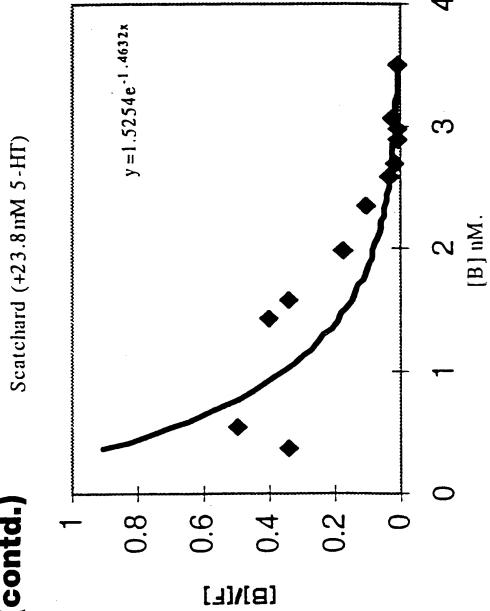


FIG. 17(contd.)



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FIG. 17(contd.)



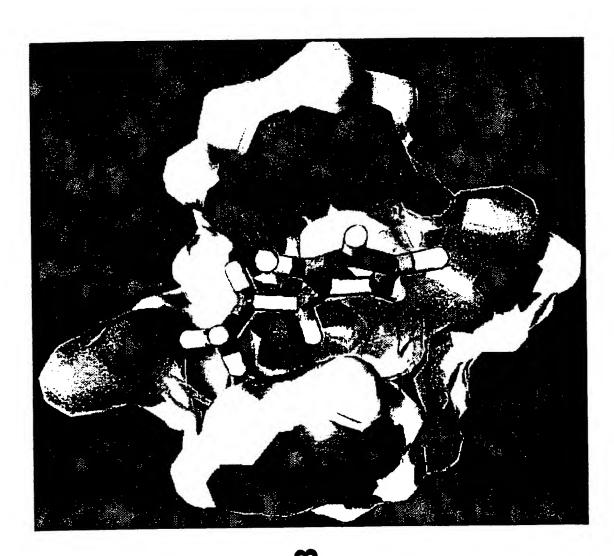


FIG. 19

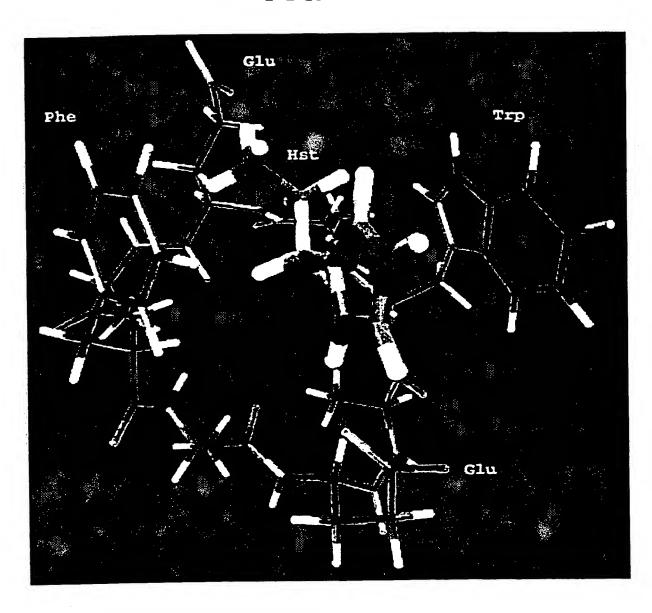


FIG. 20(a)

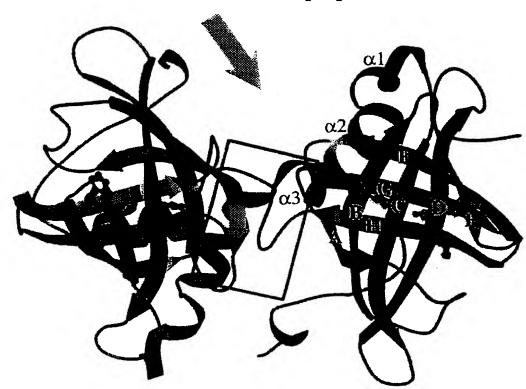






FIG. 20(c)

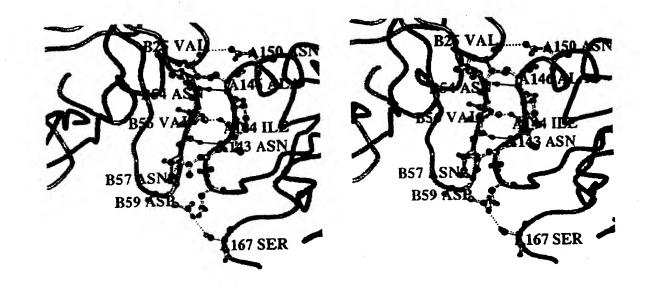


FIG. 20(d)

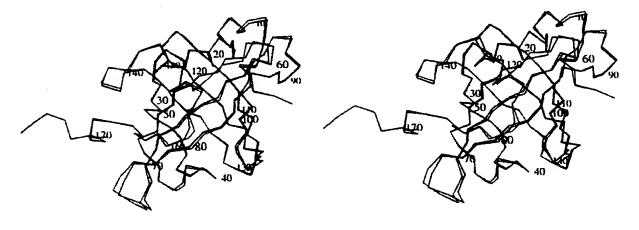


FIG. 21(a)

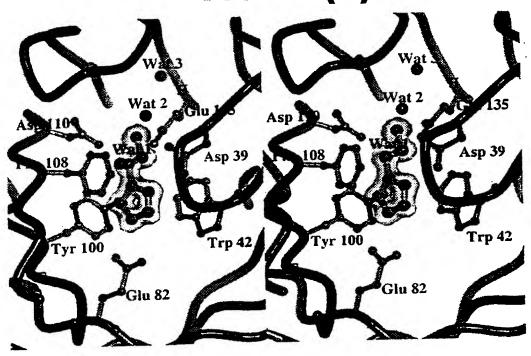


FIG. 21(b)

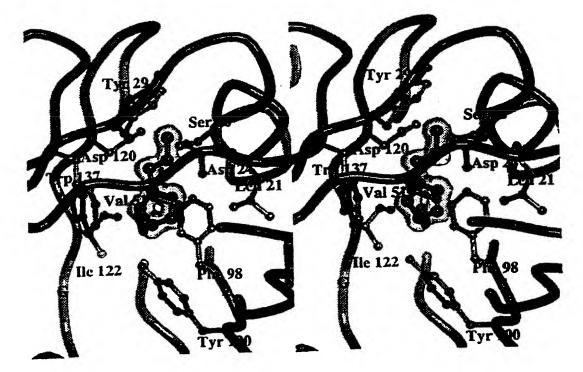
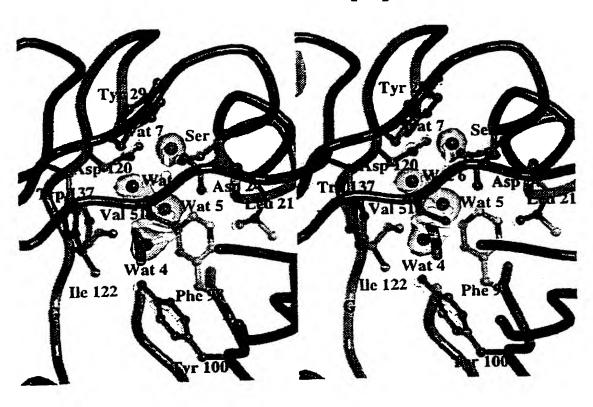


FIG. 21(c)



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MALR FALL LACIVTAC VTACG WRTRIQEKGPENNPLMNTQRLGKMQDAWKSLEKAT MALR FALL LACIVTAC VTACG WRTRIQEKGPENNPLMNTQRLGKMQDAWKSLEKAA MALR FALL LLACIVSACCGFWRWTTRRVTKRPDNSPLNNNQHLGLFQRMQDAWKSLLV MKL-L-LODAWKSLLODAWKTTRRVTKRPDNSPLNNNQHLGLFQRMWRTTRRVTKRPDNSPLNNNQHLGLFQRLV MKL-LLLSLAFVLALSQVKADPRPWADEAANGEHQDAWKSLNQDAWKSLNOQOO MKL-LLLSLAFVLALSQVKGN	A T - M T Q N - V S T S - N N
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FIG. 22(CONTD.)